

19970613.ba ba-por01.494 ba-por01.495
 >1494
 >From owner-boatanchors@sco.theporch.com Thu Jun 12 12:58 CDT 1997
 >Received: from sco.theporch.com (sco.theporch.com [207.234.31.38])
 > by uro.theporch.com (8.8.6.Beta5/A-UX-3.0.1) with ESMTP id MAA22587
 > for <SHIMSHON@URO.THEPORCH.COM>; Thu, 12 Jun 1997 12:58:44 -0500 (CDT)
 >Received: from sco.theporch.com (localhost [127.0.0.1])
 > by sco.theporch.com (8.8.6.Beta5/SCO-5.0.2) with SMTP id RAA17358;
 > Thu, 12 Jun 1997 17:56:52 GMT
 >Message-Id: <199706121756.RAA17358@sco.theporch.com>
 >Date: Thu, 12 Jun 1997 12:56:51 CDT
 >Sender: owner-boatanchors@theporch.com
 >From: boatanchors@theporch.com
 >To: Amateur Radio Equipment Using Vacuum Tubes <boatanchors@sco.theporch.com>
 >Subject: BOATANCHORS digest 1494
 >Mime-Version: 1.0
 >Content-Type: multipart/mixed; boundary="--
 __ListProc__NextPart__866138172433069086"
 >X-Listprocessor-Version: 8.1 -- ListProcessor(tm) by CREN
 >Status: 0

BOATANCHORS Digest 1494

Topics covered in this issue include:

- 1) RSGB!
by "Roberta J. Barmore" <rbarmore@indy.net>
- 2) Chicago BA Haunts
by elroy@sfnnet.com
- 3) Re: Help Please
by "Roberta J. Barmore" <rbarmore@indy.net>
- 4) Those long telco fuses
by bill@skeeter.frco.com (William Hawkins)
- 5) Sprague Tel-Ohmike Manual Needed
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- 6) ARC-5 Dynamotors...
by "Kenneth G. Gordon" <keng@uidaho.edu>
- 7) Re: Help! Tek 547 scope problem.
by vancleef@netcom.com (Henry van Cleef)
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- 9) Dial Cord
by Ronnie Hull <w5sum@ms1.nwla.com>
- 10) Sprague T06
by Ronnie Hull <w5sum@ms1.nwla.com>
- 11) TS-183 Battery Tester - HELP
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by "O'Neal, Chuck" <CONEAL@microtouch.com>
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by Sandy W5TVW <ebjr@worldnet.att.net>
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by Sandy W5TVW <ebjr@worldnet.att.net>
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 - 21) ARC-5 AVC and loop antenna (long)
by Michael Hanz <AAFRadio@erols.com>
 - 22) Need Manual: Measurements 59 GDO
by rsolomon@tsd.texttron.com
 - 23) ARC-5 AVC
by Michael Hanz <AAFRadio@erols.com>
 - 24) Drake C-Line Crystals
by RNotarius@chester-engineers.com (Ron Notarius)
 - 25) Tip for fixing unstable VFO
by carl yaffey <cyaffey@sprynet.com>
 - 26) RE FS Swan 700CX
by ARONGV@aol.com

Date: Wed, 11 Jun 1997 23:54:18 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: BA <boatanchors@sco.ThePorch.com>
Subject: RSGB!
Message-ID: <Pine.SUN.3.96.970611231438.29281A-1000000@indy2>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

This is a little off-topic, so I'll keep it short:

Received the RSGB New Member Package today, and zow! It's like the good old days! (Had to beg the ARRL for a membership certificate, BTW. Know they're busy, but ten months late on a one-year membership is a bit much).

So what came across the Atlantic from RSGB?

Let's see--an issue of RadCom (article on regen receivers and the single-6L6 clandestine jobs WW II fjord-watchers used, plus another on a big 3-500Z amp, how's that for tube-friendly?), membership certificate, card, address labels for the QSL bureau, a multipage collection of interference info, the charter (bylaws, etc.) and a complete list of committees and officers with contact info annnnd--a cloisonne lapel-pin and a fat checkbook-sized datebook/vade-mecum (world maps, quick prefix lists, general tech info, list of suppliers, et useful cetera): "RSGB Radio Amateur & SWL Diary," leatherette and gilt-edged, no less!

Pretty nice, and well worth the cost of membership--all I was after was joining up and getting the magazine! :) (All right, I'm a hopeless sap for any nice printed matter pertaining to radio--but that little "diary" is a pretty classy touch and awfully handy--even has a section on antennas!)

73,
--Bobbi

(PS: Waiting for the Wireless Institute of Australia mag &c to arrive, and will report when it does--don't any of you hold your breath, as the VKs tell me it takes about 3 months for QST to travel in the opposite direction!)

(PPS: I've been poring over the three prewar volumes of RSGB's "Amateur Radio Handbook" and they're pretty nice--similar to the "Jones" HBs, a little thinner but the usual first-rate RSGB job on theory & practice. I'd rank 'em with the Jones/"Radio" HBs, in the "if you see 'em, buy 'em" category!)

Date: Wed, 11 Jun 97 21:44:28 -0800
From: elroy@sfnet.com
To: boatanchors@theporch.com
Subject: Chicago BA Haunts
Message-ID: <9706112144.0UJJC05@sfnet.com>

Greetings! I'll be visiting my home town of Chicago Illinois in September, and I'm wondering what other spots to visit besides the "Radio & TV Lab" on Irving Park Rd. Possibly some list member can help with this, haven't spent much time back there lately! Also, if anyone knows the exact address of the old Hallicrafters factory i.e. a street # instead of "Fifth Av. & Kostner" please lemme know so I can get a picture of the building. Please reply direct to: elroy@sfnet.com

TNX & 73 DE KE6FOW
ROBERT G. LEVIN

Date: Wed, 11 Jun 1997 23:58:53 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Ed Tanton <n4xy@bellsouth.net>
Cc: gah@koyote.com, boatanchors@sco.theporch.com
Subject: Re: Help Please
Message-ID: <Pine.SUN.3.96.970611235659.29281B-1000000@indy2>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

One side-note: GC makes a decent liquid flux (rosin in some middlin' inert carrier that vaporizes) that can be *very* useful in major desoldering of this sort. Use sparingly, a little goes a very long way. It's handy stuff.

73,
--Bobbi

Date: Thu, 12 Jun 1997 00:29:07 -0500
From: bill@skeeter.frco.com (William Hawkins)
To: boatanchors@sco.theporch.com
Subject: Those long telco fuses
Message-ID: <9706120529.AA08047@skeeter.bvc.frco.com>

Got a telco book from a listmember back when we had snow on the ground. In it I found the answer to the mystery of why those old telco protector block fuses are so long. Certainly extreme overkill for telco voltages.

Back when some of us were growing up, it was common to have street lights that were a series string of bulbs. They could be driven by a constant current generator designed for lighting, or from a high voltage, like 4 kilovolts. The high voltage saves on copper cost, without being so high that insulation is expensive. The bulbs (or the sockets?) were designed so that if the bulb burned out, the high voltage would arc through a paper insulator to keep the string lighted.

Telephone wires ran on the same poles with street light wires. The fuse in the protector is designed to interrupt high voltage in case the lighting line and the phone line got crossed in an accident.

Regards,
Bill Hawkins

Date: Thu, 12 Jun 1997 00:32:05 -0500 (CDT)
From: rhys@ix.netcom.com (Lawrence D. Wolken)
To: boatanchors@theporch.com
Subject: Sprague Tel-Ohmike Manual Needed
Message-ID: <199706120532.AAA28562@dfw-ix14.ix.netcom.com>

Hi Gang --

Fortune has smiled upon me and I've found a Sprague Tel-Ohmike in great working order. The model is T0-6, but I suspect they're all about the same. If anyone has a manual/schematic that they are willing to copy and send along, I would certainly appreciate it and cover any expenses plus. Thanks much.

Larry Wolken N30JD

Date: Wed, 11 Jun 1997 23:08:08 -0800
From: "Kenneth G. Gordon" <keng@uidaho.edu>
To: boatanchors@sco.theporch.com
Subject: ARC-5 Dynamotors...
Message-ID: <199706120609.XAA22298@piobaire.mines.uidaho.edu>

Fair Radio Sales has DM-32s for \$15 and D-10A for \$7

For those who need to know.

Ken W7EKB

Date: Thu, 12 Jun 1997 00:34:39 -0600 (MDT)
From: vancleef@netcom.com (Henry van Cleef)
To: allent@EN.COM
Cc: boatanchors@theporch.com
Subject: Re: Help! Tek 547 scope problem.
Message-ID: <199706120634.AAA15538@netcom5.netcom.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

As Allen Tucholski discourses

>
> I have a Tek 547 scope that has a problem in the vertical amplifier.
> The problem is the 12AT7 tube that follows the plug in has a problem
> with the plates glowing red! I checked all the voltages and the grid
> bias seems low 30 volts apposed to 68 volts and one transistor was also bad
> after the 12AT7, I substituted a transistor, put in a new tube and still no
> luck.
>
> Also the transistors have there own Tek numbers, how do you find a replacement
> in common parts?
>
> Anyone out there real good with the 547? any help would be appreciated.
>

Surprised not to see answers to this. I don't have a 547 manual, but can give a couple of pointers that might help. If you do not have a manual for the scope and plug-in, get them from Deane Kidd. You need to have the Tek manual in front of you for all but the very simplest trouble-shooting, and if you don't know Tek circuits well, even simple trouble-shooting is impossible without the manuals.

The Plug-in interface for all 530-40 series scopes expects the plug-in output to be elevated to 67 volts or so. This voltage is set by the plug-in. If you have another plug-in, try it first. With the power off, check the resistance to ground at the Blue Ribbon connector leads (pins 1 and 3 as I recall) for the vertical to ground. Should be high impedance. 12AT7 plates glowing red is a sign that something is pulling down on the cathodes. Do some ohmmeter checking there. The cathodes should jump up to about 3 volts higher than the grids the moment the relay clicks in. Study the circuit schematic and read the circuit description in the manual. As I recall, the 547-6-4 manuals were quite thorough in the Principles of Operation section. The current through each section of the tube is metered by the cathode impedance, and you've got a low impedance somewhere where you should have a fairly high one. For test, you probably can pull the tube out of the socket (look at the schematic and see what's affected by low voltage on the cathode or high voltage on the plate) and see if the plugin jumps up to 67 volts or thereabouts.

90% of what goes wrong with these scopes can be trouble-shot with a Simpson 260 with no power applied to the scope. In the vertical and horizontal amplifiers, if you've got signs of smoke and electrical stress (like red tube plates), get the power off the box and start ohming things out. You can get cascading failures in some of these

circuits, and running the scope with obvious problems like these is a bad idea---once you know where to start probing with your trusty Simpson.

Most of the later Tek manuals give generic part type information on semiconductors. Fortunately, semiconductor manufacture has come a long ways since '64, and standard generic types from Motorola will generally work without much fuss. As I recall, 2N2904 and 2N2906 are "dime" jobs that will handle most of the small signal work. If you have to replace germaniums with silicon, check how the bias is generated---you'll need to move from 180 to 480 mv V_{be} with the transistor running class A. Fortunately, a good many Tek circuits have plenty of impedance in either the base or emitter circuit, so you can plug-and-play. On balanced circuits, like the vertical chain, replace components on both sides, and make sure you are balanced down the chain. Also watch B_{veb0} ---most modern silicons won't take over 5 volts of back bias, while some of the older germaniums would handle 15. If the transistor is ever run cut off in the circuit, make sure the back voltage can't go too far beyond cutoff. Take advantage of the Tek design philosophy that says that the circuit transfer characteristics are determined by passive components, not active components. If a transistor will transist, it will generally work in a Tek circuit from that era. Remember that in '63, good transistors were on a par with "hot tubes" of the 20's, and the circuits had to have broad tolerances.

--

=====
Hank van Cleef
=====

Date: Thu, 12 Jun 1997 08:39:38 +0200
From: "ro" <otterstad@mec.dk>
To: <boatanchors@theporch.com>
Subject: FS : books
Message-ID: <199706120636.IAA04811@inet.uni-c.dk>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Ragnar Otterstad

email : otterstad@mec.dk

RCA Transistor Thyristor & Diode Manual 1971 10 dlrs

Philips Semiconductors and integrated circuits 1971 10 dlrs

+ postage

73 Rag OZ8R0 in Copenhagen

Date: Thu, 12 Jun 1997 05:43:30 -0500
From: Ronnie Hull <w5sum@ms1.nwla.com>
To: boatanchors@theporch.com
Subject: Dial Cord
Message-ID: <1.5.4.16.19970612044150.35c7cd00@ms1.nwla.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

GC electronics still makes and markets dial cord
and springs. These should be available at a local
electronics parts house just about anywhere. If not,
Southern Electronics in Shreveport, La stocks it.
I saw it in there yesterday. Their phone number is
318-222-8795

Ronnie

Date: Thu, 12 Jun 1997 05:47:15 -0500
From: Ronnie Hull <w5sum@ms1.nwla.com>
To: boatanchors@theporch.com
Cc: baswaplist@foothill.net
Subject: Sprague T06
Message-ID: <1.5.4.16.19970612044536.35c7a524@ms1.nwla.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I am in need of a manual for a Sprague T06 too!!

Ronnie

Date: Thu, 12 Jun 1997 21:07:08 +1000
From: David Prince <davprin@gil.com.au>
To: boatanchors@sco.theporch.com
Subject: TS-183 Battery Tester - HELP
Message-ID: <339FD85C.3B61@gil.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

G'day Gang,

Not exactly BA but it is used to test batteries for some military BA's, hi.

Does anyone have a schematic for this unit. The two probe leads and the plug lead have been disconnected from my unit and I need to know where they belong. Also one of the two large 30W resistors has been removed. The remaining one is 9000 Ohms. Should the missing one be the same value? I do have TB 11-6625-450-10/1 Bulletin containing the test data but nothing else. Thanks

--

Dave Prince VK4KDP
davprin@gil.com.au

Brisbane Military Radio Collection

Date: 12 Jun 97 08:20:12 EDT
From: "Gary J. Youney" <72302.2164@CompuServe.COM>
To: All <Boatanchors@theporch.com>
Subject: Johnson 500 key needed
Message-ID: <970612122012_72302.2164_DHR36-1@CompuServe.COM>

Anyone have an extra key, or know where I can find one? I took my cylinder to some locksmiths: most couldn't be bothered (low payout) and one came up with a homebrew one on his grinder that doesn't work very well!

73, Gary

Date: Thu, 12 Jun 97 16:41:00 PDT
From: Sifakis George <sifakis@isoft.intranet.gr>
To: boatanchors <boatanchors@theporch.com>

Subject: Fleamarket Frenzy

Message-ID: <33A08745@msgw.isoft.intranet.gr>

"I don't really need anything. I'm just going to look". With these thoughts in mind and cash in hand read how the human brain can turn into mush and all will-power dissolve at the sight of a "bargain".

BY ALAN M. DORHOFFER, K2EEK, copied without permission from CQ October 1978

The 1978 Dayton Hamvention Fleamarket went a long way to once again demonstrate Brownian movement. Like all large fleamarkets, the amount of visual stimuli becomes overwhelming. The sights, sounds and smells of bygone treasures combine with hoards of people pouring over themselves in search of a bargain.

In the early morning light, before 6 a.m. in Dayton, the throngs pour in, and in an orderly fashion start going up and down the aisles. The cool air keeps everyone alert and leg muscles still supple so that one can still feel that his feet are functioning. Morning progresses and the movement increases. The panicked feeling takes over when you are afraid that you will be beaten out on some goodie. Confidence wanes, you forget the cardinal rule about moving your head. Keep your head in one direction going up an aisle and reverse for the return trip. Suddenly your eyes dart to a booth across the way, your head moves in another direction to see what someone else has bought and is carrying away. Did you need that? Could you use it? Maybe he'll sell it?

The sun is up and you're feeling the effects of whiplash. Your head is now moving constantly looking all around. Should you stop for food? No, you might need that extra few bucks, and you can always stop on the way back. Halfway through now and your legs are shot. Just keep those feet moving. Eyes dart back and forth trying to save those precious neck muscles. The pace increases, there's got to be something good just around the bend. Numbness sets in, neck muscles give out and your head droops. You are forced to look down. You pass everyone you know without the slightest recognition ... they are also looking down. Old lifelong friends and even relatives pass each other without notice. Feet are dragging, knees almost locked, you force your pace to quicken. Just a few more tables to see.

The sun reaches its peak as you near the last table. A low throbbing headache pulsates through what is left of your brain as you take in some 1U4's, the face plate from a Meissner Signal Shifter, two mint copies of a Vocaline instruction manual, thirty or forty dried-out line cords, a Globe Scout 680 and two DX-100s in dubious condition. This is what it's all about.

Where did I see that great bargain that I didn't want to carry around? People all around are mumbling the same question. Milling around is the

order of the day, the time for walking around has long since past. Heads are once again forced high as a second pass through the fleamarket is contemplated. Eyes glaze over, feet trip over themselves, stumbling ever onward. Now we all seem to be bumping into each other as crowds of people take part in a human pi-ball game. A ricochet off someone on his first pass through puts you next to a table that you don't remember. Brains begin to slow down and item-recognition grinds down to a crawl.

With a little luck you can ricochet yourself near some food and a little shade. No luck. You are knocked back into an aisle of what looks like beer can collectors and macrame rig covers. Boing! You're back and fading fast. Boing ... Boing ... Boing and tilt. People bounce all around saying "excuse me", "pardon me", "I'm sorry" and finally can only nod in the general direction of the infringement.

>From the lofty view on high, the scene as witnessed from a helicopter is of thousands of molecules colliding with each other. Grouping hands fight each other for ownership rights to artifacts from a different age. Who cares what it does as long as the price is right. The sun moves downward and last minute buying takes place. If your eyes can focus on it you want it. You have to spend money on something. How can you go through this experience without buying anything?

Suddenly you are doubled up in pain as you discover yourself draped over a 2-meter long-john carried by two other glazed eyed shoppers. It's too much of an effort to shout out and so you are carried out of the fleamarket and dumped into the back of a '72 Chevy van. It's cool and quiet there and sort of restful. A bag of Taco-Chips on the floor looms out of the darkness and you start to eat them. The two shoppers get in front and start the engine. You're too tired to stop them as they drive off with you still in the back. Boy, what a terrific day. Who'd believe it if they hadn't seen it for themselves. Can't wait till next year to do it again.

How can I get them to drive me back to the Arena?

73

George SV0KA sifakis@isoft.intranet.gr

Date: Thu, 12 Jun 1997 09:40:57 -0600 (MDT)
From: dfrancis@iex.net (Dexter Francis)
To: boatanchors@theporch.com
Subject: Re:ARC-5 endpoint alignment, etc.
Message-ID: <v01520d04afc574233ac6@[207.0.57.74]>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

I followed Sandy's endpoint adjustment procedure on the BC-455 and I'm now a full convert to the ARC-5 fan club. The thing tracks to within the width of the scribed lines on the tuning dial and pulls signals out at -110 dBm. (If it just had a variable bandwidth adjustment...)

I now also know that the air to ground SSB chat I heard between "Andrews" and "Mike 5" the other night must have been below 7050 MHz as the upper (9 MHz) endpoint was about 300 kc high.

-df

* CWest Tube Sales - P.O.B. 22443 SLC, UT 84122 *
* http://www.usa.net/~dfrancis/CWest_Tube_Sales.html *
* e-mail to: tubes@usa.net *

Date: Thu, 12 Jun 1997 11:47:05 -0400
From: "O'Neal, Chuck" <CONEAL@microtouch.com>
To: "'BOATANCHORS'" <boatanchors@theporch.com>
Subject: FS: Large AM rig
Message-ID: <c=US%a=_%p=MTSI%l=METHUEN1-970612154705Z-4249@c2smtp.microtouch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

>Hi Folks,

>

>I have available for sale an extremely well built high power AM transmitter
>that covers 160 thru 10 meters. Final is a 4CX1500A modulated by a pair of
>3CX1200A7's using 5KW broadcast iron. Fully metered, vacuum variables with
>turns counters, extra final tube, all machining professionally done. Plate
>power supply not included, needs 3500VDC at up to 1.5 amps, depending on the
>desired output power. All other supplies built in. Requires about a total
>of 26" of 19" rack space, plus room for the modulation transformer, reactor
>and plate supply. It can run very conservatively at 375 watts out...up
>to....well look up the final tube. Priced at \$1.00 a watt at full output. Due
to weight it is pick up only in Bolton, MA. 30 miles west of Boston.
Email me for details. This is a one of a kind that exceeds broadcast
quality in operation and appearance.

>

>Need room for the next rig under construction.

>

>Chuck...K1KW

>

Date: Thu, 12 Jun 1997 08:56:54 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
To: Dexter Francis <dfrancis@iex.net>
Cc: boatanchors@theporch.com
Subject: Re:ARC-5 endpoint alignment, etc.
Message-ID: <Pine.BSF.3.95.970612085417.26571B-100000@piobaire.mines.uidaho.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 12 Jun 1997, Dexter Francis wrote:

> I followed Sandy's endpoint adjustment procedure on the BC-455 and I'm now
> a full convert to the ARC-5 fan club. The thing tracks to within the width
> of the scribed lines on the tuning dial and
> pulls signals out at -110 dBm. (If it just had a variable bandwidth
> adjustment...)

Do the regen 1st IF bit I suggested in an earlier post with a pot (5k I think) to replace the cathode resistor, and Viola!, variable bandwidth (sorta). :-)

Ken W7EKB

Date: Thu, 12 Jun 1997 16:23:52 UTC
From: joelutz@juno.com (Joseph W Lutz)
To: HEATH@LISTSERV.TEMPE.GOV
Cc: boatanchors@theporch.com
Subject: HEATHKIT SERVICE BULLETINS
Message-ID: <19970612.162356.3078.3.JOELUTZ@juno.com>

Hi,

To all that have send me their desires, I have them written down and will pull that information from the fiche for you. For the queries if bulletins exist that cover certain problems - I have all the Svc Bulletins from 1966 thru 1979 [excluding 1977] - which is quite a bit of infomation to read. What I do - seeing the library in my neck of the woods don't have a fiche reader with printing capability - is copy the information down by long hand and then type it on the PC for entering into the respective groups. As I send them I also save to a Heathkit

Fiche File, and after I am done maybe they can be placed in the archives
- which I think would be great. I am glad that the information is useful
to a lot of you - as it is to me. Regards.

73 de JOE

- - - - -W7LPF/4 (NNN0KUU)- - - - -

QWCA - NCVA - SOWP - FISTS

Gordonsville, Va 22942 (Orange County)

Looking for: Heathkit HR/HX-20, MR/MT-1,
Collins 516F-2, 312B-4, EFJ TR Switch

- - - - -

Date: Thu, 12 Jun 1997 17:30:41 +0000

From: Sandy W5TVW <ebjr@worldnet.att.net>

To: BASWAPLIST@FOOTHILL.NET, boatanchors@theporch.com, glowbugs@www.atl.org

Subject: FT: Bud wavemeter, EICO dipper

Message-ID: <19970612173033.AAC22246@LOCALNAME>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Bud WM-78 'double ended' wavemeter for trade to anyone out there
collecting wavemeters. I'm looking for a Triplet or a Simpson wavemeter
for my 'collection'

Also have an EICO 710 Grid dip meter complete with coils. It's old,
it works.

Condition about a 5 or 6. It is well worn but fully functional. Trade for the
big metal storage box for the Millen Grid Dip meter/coils, or ????

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive,

Metairie, LA., 70001

ebjr@worldnet.att.net

Looking for: 860 tubes, WL-460 tubes

Butternut HF2V antenna, G-R test gear.....*

Date: Thu, 12 Jun 1997 17:30:38 +0000

From: Sandy W5TVW <ebjr@worldnet.att.net>

To: boatanchors@theporch.com, glowbugs@www.atl.org

Subject: SX-71 problem

Message-ID: <19970612173033.AAB22246@LOCALNAME>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello Glowbuggers/anchorites,

Anybody out there ever have any troubles with oscillation of the RF stage in the SX-71 as the gain is advanced to near maximum? (About 80% of full on).

I finally got everything pretty much going in this beast. Still have some minor problems, but this is a major pain. Tried the common causes like replacing/bridging existing by-pass caps, checking resistor values, adding grounds etc. Has anyone run into this problem during restoration?

I suspect next possibly a bad "RF ground" somewhere. Hallicrafters rivited the sockets in and included some ground lugs. Beginning to think this might be a problem although the meter shows a solid ground. Seems like I've heard of troubles like this in the Collins 75A-4, although they used an aluminium chassis, which invites subtle corrosion under lugs over so many years.

Idea anyone who has "Been thru the s..." on this?

Looks like it will be a pretty decent receiver if I can get it straightened out.

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive,

Metairie, LA., 70001

ebjr@worldnet.att.net

Looking for: 860 tubes, WL-460 tubes

Butternut HF2V antenna, G-R test gear.....*

Date: Thu, 12 Jun 1997 13:33:43 -0400

From: "O'Neal, Chuck" <CONEAL@microtouch.com>

To: "'BOATANCHORS'" <boatanchors@theporch.com>

Subject: FS: Large AM rig

Message-ID: <c=US%a=%p=MTSI%l=METHUEN1-970612173343Z-4417@c2smtp.microtouch.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

Not sure if this got out the first time...received a "mailbox full, try

again later" message.

>Hi Folks,

>

>I have available for sale an extremely well built high power AM transmitter
>that covers 160 thru 10 meters. Final is a 4CX1500A modulated by a pair of
>3CX1200A7's using 5KW broadcast iron. Fully metered, vacuum variables with
>turns counters, extra final tube, all machining professionally done. Plate
>power supply not included, needs 3500VDC at up to 1.5 amps, depending on the
>desired output power. All other supplies built in. Requires about a total
>of 26" of 19" rack space, plus room for the modulation transformer, reactor
>and plate supply. It can run very conservatively at 375 watts out...up
>to....well look up the final tube. Priced at \$1.00 a watt at full output. Due
>to weight it is pick up only in Bolton, MA. 30 miles west of Boston. Email
>me for details. This is a one of a kind that exceeds broadcast quality in
>operation and appearance.

>

>Need room for the next rig under construction.

>

>Chuck...K1KW

>

>

>

Date: Thu, 12 Jun 1997 13:36:19 -0700
From: Michael Hanz <AAFRadio@erols.com>
To: boatanchors@sco.theporch.com
Subject: ARC-5 AVC and loop antenna (long)
Message-ID: <33A05DC3.22C4@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike Maloney wrote:

> Anyone had success adding AVC and/or S-meter to an ARC-5
> used primarily for AM-BCB listening (.52 to 1.5MC)?
> Any tips, suggestions, etc. would be appreciated. Also,
> has anyone modified the antenna input circuit to permit
> using with a low impedance box loop?

Since Dave Stinson is still off the net, I'll try to fill in for him, though this is really his area. I have nothing else to do at the moment, lying flat on my back from lifting a BA the wrong way...stupidity is its own reward.

ALL of the ARC "command" receivers have AVC, even my 1939 RATs. BUT...not

all AVCs are alike. The earlier models (RAT, RAV, ARA, and even the SCR-274N) were designed to avoid overloading with large signals from nearby transmitters, and really only operated with antenna input levels over 1,000 microvolts. They used the second IF tube as a diode by coupling grid leak voltage produced when overdriving the stage to increase the bias on the RF and 1st IF tube grids. The ARC-5 sets were the first to incorporate anything we would call a modern AVC design. There were two variations used with the initial ARC-5s - a straightforward design controlling the RF and 1st IF stages for the .19-.55 and .52 - 1.5Mc navigation receivers, and a slightly more sophisticated design with delay AVC for the HF comm receivers. The delay AVC operated over a range of 30 to 10,000uV input. Not sure why at least the roughly contemporary SCR-274N sets didn't use the more modern design - there aren't significantly more parts in it. Probably something known in DoD as specification inertia. :-)

A higher performance design was introduced into the R-23A/ARC-5 (.19 to 550KHz) receiver just before the end of the war, using a variation of delayed AVC and the "sinking diode" technique to reduce differential distortion. They added the mixer stage to the controlled string, as well. Langford-Smith discusses this well, so I won't repeat it. Can you modify the HF ARC-5s to do the same thing? Sure, but be aware of what you're doing...the interelectrode capacitances between the unused diode and other tube elements in the 12SR7 are part of the BFO parameters and you can screw things up royally if you merely replicate the R-23A circuit. The earlier command receivers won't tempt you this way because you don't have three too many diodes to play with. To sum up, easiest way to improve the earlier command receivers is to duplicate the basic HF ARC-5 circuit.

An S meter could be added to the 200 ohm 2nd IF plate decoupling resistor (R-13) if you don't mind reading backwards. Langford Smith and the older Handbooks have circuits for these. Alternately, you could use a FET follower and read the AVC voltage with a suitable bridge to establish the correct endpoints. I can't get down to my CQ and QST magazines, but I'm sure there are other ideas in them as well.

As far as the loop antenna is concerned, I'd be inclined to just wind a simple broadband toroid transformer to go from balanced to single ended, and mount it externally. You could add a 25 turn Litzendraught winding to the input RF transformer in Z-5, as ARC did to create the R-23, 23A, and 24, but that's a lot of work and you'd still need a way to get the winding out of the case. Easier to do it outboard. The ARRL Handbook can provide details on winding the balun.

Whew!!! Dave Stinson, where are you???

--

73,
Mike Hanz, KC4TOS
Herndon, VA

AAFRadio@erols.com

Date: Thu, 12 Jun 97 13:38:07 EDT
From: rsolomon@tsd.texttron.com
To: boatanchors@sco.theporch.com
Subject: Need Manual: Measurements 59 GDO
Message-ID: <9705128661.AA866148378@cctds.tsd.texttron.com>

I need the operating manual, schematic, whatever for the Measurements Model 59 GDO. Sure, I know it's a no-brainer, but I'm Freudian when it comes to documentation for my equipment.

Tnx, Dick, W1KSZ

Date: Thu, 12 Jun 1997 13:46:31 -0700
From: Michael Hanz <AAFRadio@erols.com>
To: boatanchors@sco.theporch.com
Subject: ARC-5 AVC
Message-ID: <33A06027.54B8@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike Maloney wrote:

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> used primarily for AM-BCB listening (.52 to 1.5MC)?
> Any tips, suggestions, etc. would be appreciated. Also,
> has anyone modified the antenna input circuit to permit
> using with a low impedance box loop?

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ALL of the ARC "command" receivers have AVC, even my 1939 RATs. BUT...not all AVCs are alike. The earlier models (RAT, RAV, ARA, and even the SCR-274N) were designed with an AVC to avoid overloading with large signals from nearby transmitters, but this really only operated with antenna input levels over 1,000 microvolts. They used the second IF tube as a diode by coupling grid leak voltage produced when overdriving the stage to increase the bias

on the RF and 1st IF tube grids. The ARC-5 sets were the first to incorporate anything we would call a modern AVC design. There were two variations used with the initial ARC-5s - a straightforward design controlling the RF and 1st IF stages for the .19-.55 and .52 - 1.5Mc navigation receivers, and a slightly more sophisticated design with delay AVC for the HF comm receivers. The delay AVC operated over a range of 30 to 10,000uV input. Not sure why at least the roughly contemporary SCR-274N sets didn't use the more modern design - there aren't significantly more parts in it. Probably something known in DoD as specification inertia. :-)

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An S meter could be added to the 200 ohm 2nd IF plate decoupling resistor (R-13) if you don't mind reading backwards. Langford Smith and the older Handbooks have circuits for these. Alternately, you could use a FET follower and read the AVC voltage with a suitable bridge to establish the correct endpoints. I can't get down to my CQ and QST magazines, but I'm sure there are other ideas in them as well.

As far as the loop antenna is concerned, I'd be inclined to just wind a simple broadband toroid transformer to go from balanced to single ended, and mount it externally. You could add a 25 turn Litzendraught winding to the input RF transformer in Z-5, as ARC did to create the R-23, 23A, and 24, but that's a lot of work and you'd still need a way to get the winding out of the case. Easier to do it outboard. The ARRL Handbook can provide details on winding the balun.

Whew!!! Dave Stinson, where are you???

--

73,
Mike Hanz, KC4TOS
Herndon, VA
AAFRadio@erols.com

Date: Thu, 12 Jun 1997 13:51:07 -0400
From: RNotarius@chester-engineers.com (Ron Notarius)
To: boatanchors@sco.theporch.com
Subject: Drake C-Line Crystals
Message-ID: <3A037740.@chester-engineers.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

I have the 160 meter (1.5-2 MHz) and Novice/Tech 10 Meter (28.0-28.5) crystals for a Drake R4C (& related radios of course!) Purchased this year at Dayton but never installed; turned out my rig had them (which the dealer that sold it to me didn't know or he'd have charged me more!)

I'd like to sell them both for \$25 + shipping, or trade them for the 30 meter and 17 meter crystals.

Please e-mail Ron WN3VAW at WN3VAW@QSL.NET or RNotarius@chester-engineers.com. Thanks!

Date: Thu, 12 Jun 1997 13:49:01 -0400
From: carl yaffey <cyaffey@sprynet.com>
To: boatanchors@theporch.com
Subject: Tip for fixing unstable VFO
Message-ID: <2.2.32.19970612174901.00c14090@m1.sprynet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Here's a tip: I have a Heathkit HG-10 VFO that was unstable. It "warbled" as well as drifted. I checked the tube, froze caps, etc. to no avail. Since I had previously sprayed the tuning capacitor with Deoxit, I didn't suspect it. It turns out that I didn't spray it enough! After re-spraying it **thoroughly**, the problem disappeared. Using this magic stuff on the meter switch of my DX-60 also fixed an intermittent problem there. Get a can if you don't already have one!

73, Carl

Carl Yaffey; cyaffey@sprynet.com; 614 268 6353;; Columbus OH, K8NU (ex-W4EZB)
Yaffey Software Development, Inc.; Banjo player for One Riot One Ranger.

/~~\
|#####|
_//

Date: Thu, 12 Jun 1997 13:54:40 -0400 (EDT)
From: ARONGV@aol.com
To: boatanchors@theporch.com
Subject: RE FS Swan 700CX
Message-ID: <970612135439_1176545717@emout09.mail.aol.com>

Hi Gang:

Had a computer crash here today. Before it happened, I saw a post here on a Swan 700CX FS. If that person could contact me at 913-268-5973 or via ARONGV@aol.com, I'd appreciate it.

Sorry to take up this space and I apologize for all the delete buttons that are now about to jump into high gear.

Ron

End of BOATANCHORS Digest 1494

>1495
>From owner-boatanchors@sco.theporch.com Thu Jun 12 23:06 CDT 1997
>Received: from sco.theporch.com (sco.theporch.com [207.234.31.38])
> by uro.theporch.com (8.8.6.Gamma0/A-UX-3.0.1) with ESMTP id XAA23404
> for <SHIMSHON@URO.THEPORCH.COM>; Thu, 12 Jun 1997 23:06:00 -0500 (CDT)
>Received: from sco.theporch.com (localhost [127.0.0.1])
> by sco.theporch.com (8.8.6.Gamma0/SCO-5.0.2) with SMTP id EAA28316;
> Fri, 13 Jun 1997 04:04:37 GMT
>Message-Id: <199706130404.EAA28316@sco.theporch.com>
>Date: Thu, 12 Jun 1997 23:04:37 CDT
>Sender: owner-boatanchors@theporch.com
>From: boatanchors@theporch.com
>To: Amateur Radio Equipment Using Vacuum Tubes <boatanchors@sco.theporch.com>
>Subject: BOATANCHORS digest 1495
>Mime-Version: 1.0
>Content-Type: multipart/mixed; boundary="--
__ListProc__NextPart__866174662433087331"
>X-Listprocessor-Version: 8.1 -- ListProcessor(tm) by CRENN
>Status: 0

BOATANCHORS Digest 1495

Topics covered in this issue include:

- 1) HEATHKIT MANUALD NEEDED!!
by "Alexander N. Gerli" <angerli@connix.com>
- 2) Need ART-13 Style Selector knobs?
by dfrancis@iex.net (Dexter Francis)
- 3) Keys for trade
by Yann Conan <yconan@nordnet.fr>
- 4) Available
by Surplus A1 <surplsal@tl.infi.net>
- 5) Manual wanted-IG42 Heathkit
by "Yves Dussault" <dussault@vipxl.net.com>
- 6) RE: 3B28 in Johnson Valiant 1
by "Freeberg, Scott (STP)" <qc01870@stp03.guidant.com>
- 7) NOS HV Electrolytics FS. (LONG)
by Spencer Petri <spetri@e-tex.com>
- 8) 3B28 warm up
by "David L. Thompson" <thompson@mindspring.com>
- 9) Wanted HR10
by kb5ww@juno.com (George Folse)
- 10) Heath IM-2410 freq counter
by Frank Scutch-EFS003 <Frank_Scutch-EFS003@email.mot.com>
- 11) STILL INVENTORYING
by leeboo@ct.net (Leon Wiltsey)
- 12) 618T Parts Needed
by n5off@n5knx.aara.org
- 13) RE: stamps ,tags on R390A
by Dennis McLaughlin <dennism2@ix.netcom.com>
- 14) Re: ARC-5 AVC and loop antenna (long)
by Bob Roehrig <broehrig@admin.aurora.edu>
- 15) Re: ARC-5/BC-455 Performance ?'s
by Bob Roehrig <broehrig@admin.aurora.edu>
- 16) Cleaning Chassis
by Ronnie Hull <w5sum@ms1.nwla.com>
- 17) 2-B question
by Ronnie Hull <w5sum@ms1.nwla.com>
- 18) Yes, Try 7060!
by ARONGV@aol.com
- 19) Re: Cleaning Chassis
by Jim Lockwood <jmlckwd@mindspring.com>
- 20) Re: SX-71 problem
by Kevin Pease <hamradio@mm1001.theporch.com>
- 21) 13VI97 NR3 CK216 WB6TMY
by W B Reese <radions@metro.net>
- 22) re: tip for fixing VFO
by carl yaffey <cyaffey@sprynet.com>
- 23) R648 Receiver
by Ron or Wendy Hankins <rh8421@gate.net>
- 24) Re: 13VI97 NR3 CK216 WB6TMY

by Jeffrey Herman <jeffreyh@hawaii.edu>
25) Re: Yes, Try 7060!
by "Roberta J. Barmore" <rbarmore@indy.net>
26) HEATHKIT SERVICE BULLETINS-CONT.
by joelutz@juno.com (Joseph W Lutz)

Date: Thu, 12 Jun 1997 14:22:58 -0400
From: "Alexander N. Gerli" <angerli@connix.com>
To: boatanchors@theporch.com
Subject: HEATHKIT MANUALD NEEDED!!
Message-ID: <33A03E81.87F28FB2@connix.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi, friends...

I need original manuals (hopefully in good condition) for the following:

Heathkit: Apache TX-1, Mohawk RX-1, Warrior amp HA-10, Marauder HX-10.

Hope somebody can help. I have photocopies, but they're poor and are missing pages everywhere.

Anybody know if there were any service bulletins published for any of these??

73,

Sandy, AC1Y

angerli@connix.com

Date: Thu, 12 Jun 1997 12:20:35 -0600 (MDT)
From: dfrancis@iex.net (Dexter Francis)
To: boatanchors@theporch.com
Subject: Need ART-13 Style Selector knobs?
Message-ID: <v01520d00afc59ad050f1@[207.0.57.74]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I recently came upon a stash of knobs. These are the rectangular ones with a sloped end face with a thin white stripe down the middle, terminating in

an arrowhead. (They look just like the function selector knobs on ART-13's) How many of you might be interested these at \$0.75 ea? I'll pick up an appropriate quantity based on your replies.

-df

```
*      CWest Tube Sales - P.O.B. 22443 SLC, UT 84122      *
*  http://www.usa.net/~dfrancis/CWest_Tube_Sales.html  *
*                  e-mail to: tubes@usa.net              *
```

Date: Thu, 12 Jun 1997 18:46:19 -0700
From: Yann Conan <yconan@nordnet.fr>
To: boatanchors@sco.theporch.com
Subject: Keys for trade
Message-ID: <33A0A66B.4F55@nordnet.fr>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Hello folks!

This is the very first message I post, and certainly not the last one! I'm looking for keys and bugs, if you've a few ones for sale or for trade, let me know. Here are a few keys available for swaps:

- FRANCE:

- SARAM. 1939 mil. key, kaki painted alu., black knob...
- SARAM. Latest variation of the above, black wrinkled painting, light brown coloured knob.

- DYNA. "Manitone REF N°29418". 1950's. Bakelite base & cover, rubber sole, built in choke circuit.

- DYNA. "Marine" (Navy). 1930/50's. Painted alu. base, painted brass lever, knob with or without skirt.

- GERMANY:

- T1 WeA 376. 1943 mil. key, bakelite cover, plated mechanism, with base.

- T1 DbF BA3814. 1941 "mouse" key, long type on metallic base. Bakelite cover & body.

- T1 Wa 768g VX41. "Mouse" key, short type, no base.

- U.K.:

- W.T.8 AMP. N°2 MKIII.

- U.S.A.:

- J-48-A. Black painting, with cover.

- NEW ZEALAND:

- KEY & PLUG ASSEMBLIES N°2B N.Z. (A W.T.8 AMP. N°2 on a metallic base on which is engraved the above mention).

If you need further details, let me know, thanks! A special Hello & TKS to Mike, K0CRX.

73's and best regards de Yann, F5LAW.

Date: Thu, 12 Jun 1997 16:20:27 -0400
From: Surplus Al <surplsal@tl.infi.net>
To: boatanchors@sco.theporch.com
Subject: Available
Message-ID: <33A05A0B.47B7@tl.infi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Have Old BA Test Osc Complete No Data Test Osc TS-710/ARN-5 \$10.00
plus postage. Simpson VOM Operators Manual Mod 260 Series III \$5.00 pp
Heathkit Manual for Shortwave Receiver Mod. SW-717 \$8.00 pp Email if
interested. 73 Al W3UGD

Date: Thu, 12 Jun 1997 15:10:38 -0400
From: "Yves Dussault" <dussault@vipxlnet.com>
To: boatanchors@sco.theporch.com
Subject: Manual wanted-IG42 Heathkit
Message-ID: <3.0.1.32.19970612151038.006e9464@vipxlnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi!

I picked up a nice IG42 Heathkit signal generator at the Plattsburg, NY, hamfest.

Now I need a manual, or copy of it.

Can anybody sell me a copy?

VE2ATD

Date: Thu, 12 Jun 1997 14:24:00 -0600
From: "Freeberg, Scott (STP)" <qc01870@stp03.guidant.com>
To: JOHN SEHRING <JOHN_SEHRING.parti@ecunet.org>

Cc: "'Boatanchors@theporch'" <boatanchors@sco.theporch.com>
Subject: RE: 3B28 in Johnson Valiant 1
Message-ID: <199706121927.0AA13511@inetgw.stp.guidant.com>

Hi John,

Glad to help. I received comments from several folks, including Valiant owners who have made the change.

All reported that the 3B28 is a direct replacement for the 866.

One friend said the 3B28 should last forever, another reported a shorter life over an 866, so take your pick here. Personally, I suspect it will last longer than an 866.

The 3B28 will never experience mercury arc over.

One comment heard during the earlier 3B28 thread was the plate transformer may be safer with the 3B28 since it will not experience mercury arc over, which can apply a short across the plate windings.

This one was probably my main motivation for shifting to the 3B28s since I had to meddle with the rectifiers anyway. In my case, the bad 866 did have mercury arc over!!!! It was all burned out and the rig was blowing fuses!

One Valiant user recommended that I make sure my problem wasn't caused by a shorted or leaky filament winding instead. He experienced this himself and resolved the problem by going with solid state rectifiers and dropping resistors rather than trying to find a transformer. Certainly alot easier to do that than hunt up a transformer.

Another advantage of the 3B28s is that they do not need to be "warmed up" as the 866s do.

Both rectifiers need to be changed so that you are running a pair of 3B28's. A couple of people did drop me a line about this one. They were just making extra sure that I knew about it.

So there is the summary of received comments. I already installed the tubes and the Valiant works great! I must say though, I miss the glow of the 866 though. It felt like you were tuning up 10,000 watts judging from the glow ;-)

73, Scott WA9WFA, St. Paul Mn
Viking Valiant 1 and National NC-300. Wow, what a rig!

From: JOHN SEHRING[SMTP:JOHN_SEHRING.parti@ecunet.org]
Sent: Thursday, June 12, 1997 1:29 PM
To: qc01870

To: qc01870@stp03.guidant.com

Could you possibly fill me on info you got from BA folks on subbing
3B28's
for 866's in a Valiant?

I seem to have missed it on the BA list. I have a Valiant too.

Thank you!

-John Sehring (Wed, Jun 11, 1997 10:26 pm MT @Baker, Montana) UCC WB2EQG

Date: Thu, 12 Jun 1997 14:40:27 -0500 (CDT)
From: Spencer Petri <spetri@e-tex.com>
To: baswaplist@foothill.net
Subject: NOS HV Electrolytics FS. (LONG)
Message-ID: <m0wcFjP-0000JTC@e-tex.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

One lot of 102 caps FS. Will take offers until 00:00Z 18 June. Each 1 is
one cap.

Sprague Twist-Lok

250/200/30 MFd--165/150/150 V 1
30/30/30 -- 150/150/150 1
30/20/160/40--450/450/250/150 1111111111111111
10/140/100/20--450/350/300/300 111
20/15/20/20--450/450/25/25 111
50/20/4/40--450/450/150/25 11
40/30/20/20--400/350/350/350 11111
290/30/10/100--150/150/150/10 1
200-300/200-300--150/150 1
150-200/10-20--350/350 11
100-150/50-100--150/50 1
60-100/40-60--350/350 11
50-120/40-60/20-40/2-5--400/400/400/400 1
470-820/28-47--160/160 1

80-150/50-100--250/250 1
 80-120/70-100/20-40/2-5--400/400/400/400 111
 280-/5-10--100/300 1
 125-200/40/60--350/350 1
 20-40/150-250/450/450 1
 120/40/40--350/350/350 1
 40/30/20--450/450/450 11
 125/5/100--350/150/10 1
 50-80/90-150/70-120/50-100--450/350/350/50 1
 50/20/4--450/450/350 111
 20/20/20--450/450/450 1
 200/200/60/30--175/175/175/175 111111111
 40/80/10--475/450/450 11
 70-100/30-5-/10-20/50-100--450/450/450/50 1
 250/200/40/10--200/200/200/200 11
 100/80/60/50--200/200/200/25 1
 80/450/5/60--200/200/175/175 11
 80/40/40/40--150/150/150/25 11
 160/450/60/5--200/200/200/200 1
 200/200/200/30--174/175/175/175 1
 50/50/50/20--150/150/150/25 1
 20/20/20/20--250/250/250/250 1
 250/200/10/10--175/175/150/150 1
 80/450/150/5--200/200/175/175 1
 250/200/40/10--250/250/250/250 11
 850/400/100/4--16/16/4/11.5 1
 20/10/5--475/350/150 1
 10/4/20--400/350/25 1
 30/10/10--450/450/450 1
 50/20/4--450/450/450 1
 10/4/20--350/350/50 1
 400/40/25--350/350/350 1
 60/20/40--450/450/350 1
 20/20/1000--350/350/15 1
 10/80/80--400/450/450 1
 20/20/20--450/450/25 1
 20/20/20--350/300/25 1
 50/160/50--450/250/50 1
 150/60/200--300/200/150 11
 50/180/300--175/175/175 1
 100/10/80--400/400/350 1
 150/100--300/150 1

Some have the aluminum mounting plate and the phenolic insulating mounting plate.

Arcolytic

80/80/100--400/200/50 11

Shipping by buyer.

Thanks.

73 de Pete WA5JCI

```
*****
EM-21--6 Mtr -- WAS #490, WAC CW, DXCC/91 Countries, VUCC #361/618 Grids
*****
      2 Mtr -- 36 States -- VUCC #346/183 Grids
*****
```

Date: Thu, 12 Jun 1997 16:45:45 -0400 (EDT)
From: "David L. Thompson" <thompson@mindspring.com>
To: boatanchors@sco.theporch.com
Subject: 3B28 warm up
Message-ID: <1.5.4.16.19970612154839.35ff061e@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I notice several say the 3B28 does not need to be warmed up but my Classic Henry 2K (Ser #156) manual says they need to warmed up 20 seconds. They installed two amperite time delay relays..115N020 to not allow HV for 20 seconds and 6N02 to allow 2 seconds for inrush. (and activating the power relay).

According to Henry designer Bob W6SW (now a SK) a 3B28 lasts twice as long as the 866A and there is no hash. One guy has a Henry 2K that is as old as mine with original 3B28's.....

Dave K4JRB

Date: Thu, 12 Jun 1997 17:11:16 EDT

From: kb5wwwo@juno.com (George Folse)
To: boatanchors@sco.theporch.com
Subject: Wanted HR10
Message-ID: <19970612.150444.5071.0.kb5wwwo@juno.com>

ALL,

I am looking for a HR10, not the B model, in good working condition with manual.

Thanks,

George Folse KB5WWO kb5wwwo@juno.com
630 Dolhonde St.
Gretna, La. 70053
504-362-1896 ph/fax
Collector of Heathkit, EF Johnson, and Atwater Kent AMI#937

Date: Thu, 12 Jun 1997 16:42:13 -0500
From: Frank Scutch-EFS003 <Frank_Scutch-EFS003@email.mot.com>
To: boatanchors@theporch.com
Subject: Heath IM-2410 freq counter
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>

I'm looking for some info on a Heath IM-2410 freq counter? I picked this up at Dayton to add to the growing stockpile of outdated test equipment.

I'm wondering if someone has a copy of a manual or maybe the specs?? I haven't had much luck finding anything on the web.

Frank, W4FMS
efs003@email.mot.com

Date: Thu, 12 Jun 1997 18:54:43 -0400 (EDT)
From: leeboo@ct.net (Leon Wiltsey)
To: BOATANCHORS@SCO.THEPORCH.COM
Subject: STILL INVENTORYING
Message-ID: <199706122254.SAA17861@blue.ct.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>To: ba
>From: leeboo@ct.net (Leon Wiltsey)
>Subject: STILL INVENTORYING
>Cc:
>Bcc:

>X-Attachments:

>

>Still running inventory over 1900 tubes

>will email all who requested prices.

>

THANK THE LORD FOR ALL YOU HAVE

68 yr old semidisabled senior

(stroke got my balance & hand to eye coordination)

ham agn as KF4RCL TECK+ (MUCH HAPPINESS)

BUILD MOST OF MY STATION EQUIP

SUB.BA & GB-- NO SOLID STATE

Leon B Wiltsey (Lee)

4600 Lake Haven BLVD.

Sebring, Fl. 33872

SEBRING FL. WHERE THERE IS NO QRM

FROM ANYTHING LOCAL

Date: Thu, 12 Jun 1997 22:50:47 UTC

From: n5off@n5knx.aara.org

To: boatanchors@theporch.com

Subject: 618T Parts Needed

Message-ID: <81757@n5knx.aara.org>

Looking for someone with a stash of Collins 618T parts as I need a couple of things.

Thanks

Tom

318-989-3430

Date: Thu, 12 Jun 1997 19:18:54 -0400

From: Dennis McLaughlin <dennism2@ix.netcom.com>

To: "'rolf.jansson@ub.umu.se'" <rolf.jansson@ub.umu.se>,

"'Boatanchors Message Post'" <boatanchors@theporch.com>

Subject: RE: stamps ,tags on R390A

Message-ID: <01BC7765.8FE234A0@akr-oh2-16.ix.netcom.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

The round rubber ink stamps on various parts have the company initials and the inspectors number. Example

GAC

56

SW

100

TSC

11

GAC is Goodyear Aerospace Corporation the company I worked for which no longer exists.

SW Stewart Warner

TSC Teledyne Systems Corp.

PX Phoenix Transformer Company

From: Rolf Jansson[SMTP:rolf.jansson@ub.umu.se]
Sent: Wednesday, June 11, 1997 8:38 AM
To: boatanchors@theporch.com
Subject: stamps ,tags on R390A

Hi I posted a mail some time ago, regarding tags and inspectionsstamps on parts in/on my EAC r390a, And I am still wondering if there are someone who knows anything,or are there anything printed
Thanks

Rolf

Date: Thu, 12 Jun 1997 19:32:35 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Michael Hanz <AAFRadio@erols.com>
Cc: boatanchors@sco.theporch.com
Subject: Re: ARC-5 AVC and loop antenna (long)
Message-ID: <Pine.ULT.3.96.970612192244.10683C-1000000@admin.aurora.edu>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 12 Jun 1997, Michael Hanz wrote:

> ALL of the ARC "command" receivers have AVC, even my 1939 RATs.

Well, kinda. My experience is that the parts and circuitry are there but not usually connected to provide AGC. My method is to remove the grounded end of R11 from ground and connect it to the junction of R18/R19.

A typical bridge circuit S-meter circuit can be made by adding 3 components: 15K 1W resistor to B+ #2 (J3 pin 5) other end of this to one end of 1K pot. Other end of 1K pot to a second 15K 1W resistor. Other end of this resistor to GRD. Pot is zero adj. S meter connects between pot wiper and B+ #3 (J3 pin 7), which is also the junction of R22/R23 that feeds the screens. You will need a series "full scale" adjust pot in one side of the meter.

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Thu, 12 Jun 1997 19:45:32 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Dexter Francis <dfrancis@iex.net>
Cc: boatanchors@theporch.com
Subject: Re: ARC-5/BC-455 Performance ?'s
Message-ID: <Pine.ULT.3.96.970612193400.10683D-100000@admin.aurora.edu>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 9 Jun 1997, Dexter Francis wrote:

> BC-455 has taken up a position next to the bed and is sporting a 48"
> vertical whip, so I've been crusing 40 meters
>
> The SRCM says: "...it will be found that the receivers are excessively
> broad in selectivity due to the high value of intermediate frequency (2830
> kc) which is employed."
>
> Do they mean too broad for CW? Too broad for AMBC? Just how broad are the
> skirts on these things?

A sheet I have, which was provided by Mike, AC5P, gives the following bandwidths of the ARC-5 receivers:

| RCVR | IF | 6dB BW | 20dB BW | 40dB BW | 60 dB BW |
|------|----|--------|---------|---------|----------|
|------|----|--------|---------|---------|----------|

| | | | | | |
|------------|--------|-------|-------|-------|-------|
| .19-.55 MC | 85KC | 1.1KC | 2.2KC | 3.3KC | 4.5KC |
| .52-1.5 MC | 239KC | 2.1KC | 4.0KC | 6.0KC | 8.0KC |
| 1.5-3.0 MC | 705KC | 3.2KC | 6.0KC | 9.0KC | 13KC |
| 3-6MC | 1415KC | 7.3KC | 13KC | 19KC | 26KC |
| 6-9.1MC | 2830KC | 13KC | 26KC | 40KC | 56KC |

By the way, the BC-348Q I have (915KC IF) is only a bit broader than the 1.5-3MC ARC-5. With its xtal filter on the BC-348 measured:

.2KC 1.5KC 5.7KC

So, yes, the 40 meter ARC-5 is quite broad and I agree with whoever said that it certainly could be improved by some IF regeneration.

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
 CIS: Data / Telecom Aurora University, Aurora, IL
 630-844-4898 Fax 630-844-5530

 Date: Thu, 12 Jun 1997 20:10:27 -0500
 From: Ronnie Hull <w5sum@ms1.nwla.com>
 To: boatanchors@theporch.com
 Subject: Cleaning Chassis
 Message-ID: <1.5.4.16.19970612190747.1b2fbefbc@ms1.nwla.com>
 Mime-Version: 1.0
 Content-Type: text/plain; charset="us-ascii"

howdy fellows

I've sure been under the weather these last few days
 bad head cold, hence, I've been kinda scarce.

now, I bought a 2nd Drake 2-B at Hamcom (I only needed the calibrator out of it). But, it is actually a nice little rig and I'm going to clean her up and see if I can perform an alignment on it. The manual has all the alignment procedures, and I have the test equipment, so might as well take the plunge.

this little rig is grimy inside. The copper chassis actually looks quite stained. Doesn't appear to have had water damage however, just dirt and some oily film.

what does one use to clean a copper chassis like this? As for the front panel and knobs, a little hot soap and water will take care of that, and the case could use a new coat of glossy black enamel. But the chassis? Hmmm...

I don't know where to start.

hep me hep me

Ronnie

Date: Thu, 12 Jun 1997 20:18:18 -0500
From: Ronnie Hull <w5sum@ms1.nwla.com>
To: boatanchors@theporch.com
Subject: 2-B question
Message-ID: <1.5.4.16.19970612191536.1b2fbefbc@ms1.nwla.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

after reading through the alignment procedures, I
am a little confused about the adjustment of one of
the controls.

the rf gain control applies a negative voltage in series
with the AVC voltage to limit the maximum sensitivity of
the reciever. the minimum value for this bias voltage is
adjusted by R48 which is factory preset and should not
be adjusted. correct value of this minimum bias is important
to prevent overloading the reciever and it should not
be reduced to increase "apparent gain" of the set.

the above paragraph comes right out of the manual.

okay, but WHAT IS the value this needs to be set at? I replaced
that pot on my first 2-B a few weeks ago, and just adjusted it
until the rig was not distorting, but I would like to know
where it is really supposed to be set.

any idea's fellows?

Ronnie

Date: Thu, 12 Jun 1997 21:25:46 -0400 (EDT)
From: ARONGV@aol.com
To: boatanchors@theporch.com
Subject: Yes, Try 7060!
Message-ID: <970612212519_1755050437@emout18.mail.aol.com>

Hi Gang:

Okay, so I was hanging out around 7060 tonight looking for W5FRS to call CQ BA. No dice. Kept tuning around through the lightning crashes. Nothing but W1AW a little lower and a little higher a Canadian net. Uhg!

Then at about 8 Central time I decided to try CQ BA myself, as W5FRS was nowhere to be heard.....by me anyway.

W7ZFB came back after a short CQ BA. Nice signals, considering the conditions. Anyway he was running a Drake 2B receiver and a homebrew xmtr. On my end I had my Swan 700CX tied to a Windom, I thought. So, I was copyable, but 569.

Nice short BA QSO, as I had things to do. Just great to hear a homebrew sig on 40 CW.

Anyway, as I congratulated myself at making it all the way to New Mexico at 8 PM CST, I realized I had worked John off the end of my dipole! Certainly not the Windom as it's feed line was lying on the shack floor! Maybe conditions weren't so bad after all.

With that under my belt, I'll join W5FRS and look around that frequency from 8 CST until 1 AM on the hour and half hour CST for any BA CW QSOs.

Try it, you'll like it.

73s Ron W00IZ Kansas City

Date: Thu, 12 Jun 1997 21:37:05 -0400
From: Jim Lockwood <jmlckwd@mindspring.com>
To: w5sum@ms1.nwla.com, boatanchors@theporch.com
Subject: Re: Cleaning Chassis
Message-ID: <3.0.1.32.19970612213705.006dfb34@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:10 PM 6/12/97 -0500, Ronnie Hull wrote:

>
>
>now, I bought a 2nd Drake 2-B at Hamcom
>
>what does one use to clean a copper chassis like this?

A weak phosphoric acid solution will make copper clean and bright. Phosphoric acid is available commercially as "Naval Jelly", DuPont Metal Conditioner, and Coca-Cola (or so I've been told). Be sure to rinse the acid off with water and dry thoroughly afterwards.

>As for the front panel and knobs, a little hot soap and
>water will take care of that, and the case could use a
>new coat of glossy black enamel.

An excellent match to the correct finish on the 2B cabinet is Rustoleum Satin Black. It is so close to the original color and texture that it's darned tough to tell Rustoleum from original paint.

73,

Jim - km6nk/4

Date: Thu, 12 Jun 1997 20:15:43 -0500 (CDT)
From: Kevin Pease <hamradio@mm1001.theporch.com>
To: Sandy W5TVW <ebjr@worldnet.att.net>
Cc: boatanchors@theporch.com, glowbugs@www.atl.org
Subject: Re: SX-71 problem
Message-ID: <Pine.LNX.3.95.970612201038.264A-100000@mm1001.theporch.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 12 Jun 1997, Sandy W5TVW wrote:

> Hello Glowbuggers/anchorites,
>
> Anybody out there ever have any troubles with oscillation of the RF
> stage
> in the SX-71 as the gain is advanced to near maximum? (About 80% of full on).

I have never had an SX-71 but I ran into a problem like that in my home brew glow bug receiver here. The RF amplifier would oscillate as the capacitance on the varriable was reduced. I spent days trying to figure that out. It turns out that there was no shield between the sections of the varriable that I was using so as the capacitance was reduced the lower plates of the capacitor could see each other and oscillation resulted.

It might be that you have bad connections on the shields in your varriable

capacitor or possibly bad ground connections on the wipers that connect the shaft to those shields.

I solved the problem here by building a shield and placing it between the sections of the capacitor and eliminating 95 percent of the problem. I still had to bias the amplifier a little high to make it stable but it now works super and my little glowbug receiver is not a hot one.

Kevin Pease
WB0JZG
Mount Juliet, TN.

Date: Fri, 13 Jun 1997 02:25:54 +0100
From: W B Reese <radions@metro.net>
To: boatanchors@theporch.com (Re: moving to 7060)
Subject: 13VI97 NR3 CK216 WB6TMY
Message-ID: <3.0.32.19970613022444.0068a0e8@mail.metro.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

Dear Ken & Others,

21) Re: moving to 7060
by Ken Gordon <keng@uidaho.edu>

Let me invite you to use the "CRYSTALS" page on the Boatanchor Archives that Jack has so generously allotted to us!

There is no reason to attempt procurement of crystals on the same frequency. If one station has 7048 and another 7060, they can communicate just fine. One purpose of the "CRYSTALS" page is for listing our favorite rocks & finding each other. There is provision not only for frequency, but also for time and day. Write me with your particulars & I will update the page as often as necessary. If we use this page, we can sit down at any time of the day & see who's on where & when. It makes us "QRM Proof" because we all have our own frequencies, and only one of us can be "Knocked Out" at a time.

In Union there is Strength!

Send an e-mail to:

listproc@theporch.com

Date: Thu, 12 Jun 1997 22:36:30 -0500

From: Ron or Wendy Hankins <rh8421@gate.net>
To: boatanchors@theporch.com
Subject: R648 Receiver
Message-ID: <v03102800afc6705a195c@[199.227.37.19]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I am interested in an R648 receiver. Anybody out there have one for sale?

Ron Hankins KK4PK
rh8421@usa.net

Date: Thu, 12 Jun 1997 16:53:27 -1000
From: Jeffrey Herman <jeffreyh@hawaii.edu>
To: W B Reese <radions@metro.net>
Cc: "Re: moving to 7060" <boatanchors@theporch.com>
Subject: Re: 13VI97 NR3 CK216 WB6TMY
Message-ID: <Pine.GS0.3.95q.970612164423.26805A-100000@uhunix3>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

TR is certainly correct. For those of us who are rockbound we need to tune up and down 10, 20, maybe 30 kc after each CQ to pick up others whose xmit freq'y is also determined by a slab of vibrating quartz.

(I've been calling CQ BA on 3711 and none of you fellows on 3579 have been answering me!)

Jeff KH2PZ / KH7

Date: Thu, 12 Jun 1997 22:39:34 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: ARONGV@aol.com
Cc: boatanchors@theporch.com
Subject: Re: Yes, Try 7060!
Message-ID: <Pine.SUN.3.96.970612222916.22967C-100000@indy4>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

I was on 7060 tonight; *heard* W7ZFB (and copied as GFB, >blush<; he faded out hr in Indy at 8:11p EST--I tried answering his call but never heard him again!

Being an optimist (and not hearin' nobody, I called and K3CJQ came back at 8:15; a FISTS member, and y'all might remember they hang out around .058 on the CW bands. After that things went dry, and hunting 7030-7060 found nobody calling. (And save the SWBC noise, an aching void on 7100-7150, where's all the Novices?) Made coffee, came back and called on 7060 at 9:05P and BA-er Garey, K4OAH replied at 9:15, for a good QS0. Alas, about 9:30 the OM came down to suggest there was in fact now lightning showing in the distance and did I not think it was a good time to quit? So OAH and I signed about 9:40.

IMHO, 7060 is a pretty good choice. The FISTS folks are close enough to drift up and say howdy and there don't seem to be a lot of rat bellowings (or whatever that digity-doo is) on the freq. ;)

73,
--Bobbi

Date: Fri, 13 Jun 1997 03:55:27 UTC
From: joelutz@juno.com (Joseph W Lutz)
To: HEATH@LISTSERV.TEMPE.GOV
Cc: boatanchors@theporch.com
Subject: HEATHKIT SERVICE BULLETINS-CONT.
Message-ID: <19970613.035537.3006.3.JOELUTZ@juno.com>

Hi Group[s],

To continue on the SB thread:

May 23, 1974

SB-100

Bulletin No:

SSB Transceiver

SB-100-3

SB & HW Series Audio Preamplifier &

VOX

Circuit Trouble Shooting

Guide

It is assumed that the basic steps such as making DC voltage measurement, checking tubes & reviewing the soldering have been completed.

The following information was compiled from the above transceivers in the 80M LSB position. The mike level control was at the 9:00 o'clock position.

AC signal voltages are listed below. These voltages were measured from the microphone connector through the VOX circuit. All measurements were made with a VTVM. A microphone or audio generator for .1V @ 1KHZ can be used as the signal source.

Mike Connector Lug 1

| | | |
|---------------------------------------|------------|----------|
| | .1VAC | |
| Pin 2 of V1 | .02VAC | |
| Pin 6 of V1 | 10-15VAC | |
| Pin 6 Level Control | | 10-15VAC |
| Pin 5 Level Control | | .5VAC |
| Pin 9 of V1 | .2VAC | |
| Pin 8 of V1 | .1 - .3VAC | |
| Center Arm of VOX Sensitivity Control | | 5-15VAC |
| Pin 7 of V17 | 5-10VAC | |
| Pin 6 of V17 | 40-50VAC | |
| Junction of C211-D201 | 40-50VAC | |
| Pin 9 of V12 | 9-15VAC | |

By tracing the AC signal from stage to stage the point of trouble can be isolated & steps taken to correct it.

POSSIBLE TROUBLE AREAS

- Check each of the shielded cables for a possible open or poorly grounded shield.
- Check for continuity through each of the shielded cables.
- Check for a proper ground at the mike control level.
- If the frequency response of the audio stage is not within specifications check the values & installation of C1, C2, C3 & C9.
- A change in VOX delay after operating for a period of time can be caused by leakage in diode D201. The other possibility is a change in value of capacitor C213. Either component could experience a change in operation characteristics due to heat.

May 23, 1974

SB-100
SSB Transceiver

Bulletin No:
SB-100-4

Instability - Trouble

Shooting

SEE BULLETIN NO: GH-1 DATED JULY 10, 1968

December 18,

1974

SB-100

SSB Transceiver

Bulletin No:

SB-100-5

Oscillations or

Low Drive

Loose boards cause sporadic self oscillations & unstable RF conditions, particularly at the high [15 & 10 meter] bands. The comb brackets which have been used are aluminum & could not be soldered. Steel brackets are now available [Part No: 204-2096] & should be used whenever encountered in the field. Both the switch shields & the driver boards should be soldered to these brackets.

This change helps to increase grid drive as well as increase stability.

May 2, 1975

SB-100

SSB Transceiver

Bulletin No:

SB-100-6

Self Oscillations Occurring After

Installation

of Steel Comb Brackets.

It has been found that in a number of units, self oscillations are still occurring after installation of both settl comb brackets [Part No: 204-2096]. To correct the condition, the screws around the RF driver board must be tightened securely. Also, the lockwashers between the circuit board & chassis must be installed, otherwise a good ground is not assured. Retightening screws which are already snug will also cause these oscillations to disappear in units where it is a problem.

June 12, 1967

SB-101

SSB Transceiver

Bulletin No:

SB-101-1D

Driver Oscillates on 40 Meters

Remove C-924 [.02 disc capacitor] from across 150K ohm resistor & delete from circuit.

SB-101
SSB Transceiver

Bulletin No:
SB-101-2D

November 1, 1967

Switch Action

Improvement

DELETE: (2) 253-67 (2) WASHER, .1860D, .054 THICK (1 EA FOR 100-445)
ADD: (2) C253-67(1) " " " " "
(FOR 100-445)

ADD: (2) B255-79(1)SPACER, 1/8 SHOULDER, THREADED

ADD: (2) A263-7 (1) FOOT, FELT, 1/8" THICK

DELETE: (4) 266-91 (1) ACTUATOR, SLIDE SWITCH

ADD: (4) 266-97 (1) " " " "

SB-101
SSB Transceiver

Bulletin No:
SB-101-3D

NOVEMBER 1, 1967

Improper Tuning

SEE BULLETIN NO. HW-100-1D DATED NOVEMBER 1, 1967.

SB-101
SSB Transceiver

Bulletin No:
SB-101-4D

APRIL 18, 1968

Improper Tuning

on 40 Meters

Description of Change:

```
DELETE:  (2) B21-31          (50) CAPACITOR, DISC .02 MFD Z5U
ADD      :  (2) B21-31          (49)  "              "              "
```

DELETE: (4) 85-131-1 (1) PC BOARD, RF DRIVER MIXER
ADD : (4) 85-131-1 (1) " " "

REMOVE: C-424 installed across R-401

NOTE: SBM-100-1 called for the installation of this capacitor on SB-100 units. This capacitor should now be removed.

June 3, 1968

SB-101 Bulletin No:
SSB Tranceiver SB-101-5D

Grounding Problems on
Tranceivers

A quality of factory wired transceivers have been shipped with loose rivets both at the rear phono sockets & at the final tube sockets.

This is causing a serious grounding problem. Corrective recommendations are shown on the attached sheet:

[[[[[[[[[[[NOTE: IF MY INTERPRETATION IS NOT CLEAR - PSE LET ME KNOW]]]]]]]]]

Illustration shows the installation of a ground buss for the rear panel phono sockets. It also states that if the final tube socket rivets are loose, they should be drilled out & eplaced with 6-32 hardware.

Okay gang - that takes care of it for tonite - have to spend some quality time with my bride. Will resume with Bulletin SB-101-1. Ciao!

73 de JOE

- - - - -W7LPF/4 (NNNOKUU)- - - - -

QWCA - NCVA - SOWP - FISTS

Gordonsville, Va 22942 (Orange County)

Looking for: Heathkit HR/HX-20, MR/MT-1,
Collins 516F-2, 312B-4, EFJ TR Switch

- - - - -

End of BOATANCHORS Digest 1495
